

GP 1652 #3
JP
9/3/99

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
8416ZYX

In Re Application Of: **Peter J. Wilson, et al.**

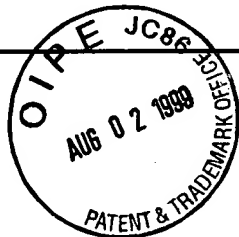
Serial No.
09/249,003

Filing Date
February 12, 1999

Examiner

Group Art Unit
1652

Title: **GLYCOSYLATION VARIANTS OF IDURONATE 2-SULFATASE**



Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:

1. a Final Action under 37 CFR 1.113, or
 2. a Notice of Allowance under 37 CFR 1.311,
- whichever occurs first.

Also submitted herewith is:

- ☐ a certification as specified in 37 CFR 1.97(e);

OR

- ☐ the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

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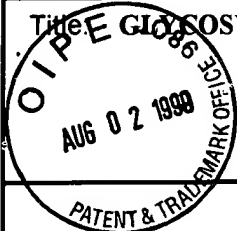
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THE GLYCOSYLATION VARIANTS OF IDURONATE 2-SULFATASE



Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 19-1013 SSMP as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
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Ann R. Pokalsky
Signature

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<i>Ann R. Pokalsky</i> Signature of Person Mailing Correspondence	
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Dated: July 29, 1999

Ann R. Pokalsky
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CC:



PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Peter J. Wilson,
et al.

Serial No.: 09/249,003

Art Unit: 1652

Filing Date: February 12, 1999

Docket: 8416zyx

For: GLYCOSYLATION VARIANTS
OF IDURONATE 2-SULFATASE

Date: July 29, 1999

Assistant Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

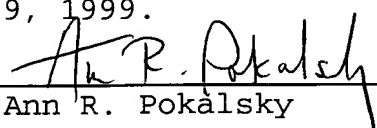
In accordance with 37 C.F.R. §§1.97 and 1.98, it is requested that the following disclosures, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case. Pursuant to 37 C.F.R. §1.98(d), copies of the listed references are not submitted as they have been previously cited by or submitted to the U.S. Patent Office in a prior application (U.S.S.N. 08/345,212) which is relied upon for an earlier filing date under 35 U.S.C. §120.

1. Wilson, et al. (1990) "Hunter Syndrome: Isolation of an Iduronate-2-Sulfatase cDNA and Analysis of Patient DNA." *Proc. Natl. Acad. Sci. USA* 87:8531-8535.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on July 29, 1999.

Dated: July 29, 1999

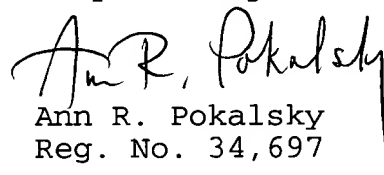

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2. Bielicki, et al. (1993) "Recombinant Human Iduronate-2-Sulphatase: Correction of Mucopolysaccharidosis - Type II Fibroblasts and Characterization of The Purified Enzyme." *J. Biochem.* 289:241-246.
3. Bielicki, et al. (1990) "Human liver iduronate -2-sulphatase." *Biochem J.* 271:75-86.
4. Nelson, et al. (1989) "Cystic fibrosis: prenatal diagnosis and carrier detection by DNA analysis." *Med. J. Aust.* 151:126-131.
5. Stein, et al. (1989) "Cloning and Expression of Human Arylsulfatase A." *J. Biol. Chem.* 264(2):1252-1259.
6. Peters, et al. (1990) "Phylogenetic Conservation of Arylsulfatases." *J. Biol. Chem.* 265(6): 3374-3381.
7. Yen, et al. (1988) "The Human X-Linked Steroid Sulfatase Gene a Y-Encoded Pseudogene: Evidence for an Inversion of the Y Chromosome during Primate Evolution." *Cell* 55:1123-1135.
8. Robertson, et al. (1988) "Human Glucosamine-6-sulfatase cDNA Reveals Homology with Steroid Sulfatase." *Biochem. Biophys. Res. Commun.* 157(1):218-224.
9. Yen, et al. (1987) "Cloning and Expression of Steroid Sulfatase cDNA and the Frequent Occurrence of Deletions in STS Deficiency: Implications for X-Y Interchange." *Cell* 49: 443-454.
10. Stein, et al. (1989) "Cloning and Expression of Human Steroid-sulfatase." *J. Biol. Chem.* 264(23):13865-13872.
11. Sasaki, et al. (1988) "cDNA cloning, nucleotide sequence and expression of the gene for arylsulfatase in the sea urchin (*Hemicentrous pulcherrimus*) embryo." *Eur. J. Biochem.* 177: 9-13.
12. Anson, et al. (1992) "Correction of human mucopolysaccharidosis type VI fibroblasts with recombinant N-acetylgalactosamine-4-sulphatase." *Biochem J.* 284:289-294.

13. Darnell, et al. (1986) *Molecular Cell Biology*,
Scientific American Books, New York, NY:957-964.
14. Ferrara, et al. (1987) *FEBS Letters* 226:47-52.
15. Kodama, et al. (1992) *Glycobiology* 2:419-427.
16. Niwa, et al. (1991) *Gene* 108:193-200.
17. Gottesman (1987) *Meth. Enzymol.* 151:3-8.
18. Allen, et al. (1990) *Meth. Enzymol.* 185:421-441.
19. U.S. Patent No. 4,837,147 to Oshima, et al.

Consideration of this Information Disclosure Statement is respectfully requested, since the art provided may be material to the examination of the present application as defined within 37 C.F.R. §§1.97 and 1.98.

Respectfully submitted,


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